

CLAIMS (UNAMENDED)

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented): A polyolefin fiber for the reinforcement of products based on fibers and a hydraulic-setting substance comprising a size comprising at least a product based on fatty-acid polyethylene glycol ester and phosphoric acid ester compounds, natural-oil-based, a product based on a fatty-acid-derived polyethylene glycol ester, and/or a product based on non-ionic surfactant and esterquats, wherein the size carries a function which assists the fiberizing operation, a function in which the fiber can be wetted by the composition of the hydraulic-setting substance, and a function of promoting adhesion to the hydraulic-setting substance.

2. (Previously Presented): The polyolefin fiber as claimed in claim 1, wherein the polyolefin is polypropylene.

3. (Previously Presented): The polyolefin fiber of claim 1, wherein the titre of the polyolefin fiber is between 0.5 and 10 dtex.

4. (Previously Presented): The polyolefin fiber of claim 1, wherein the polyolefin fiber has a tenacity of at least 4 cN/dtxt.

5. (Previously Presented): The polyolefin fiber of claim 1, wherein the size is present on the fiber in an amount of 0.05 to 5% by weight of dry matter relative to the dry weight of fiber.

6. (Previously Presented): The polyolefin fiber of claim 1, wherein the size is applied alone or as a part of a solution, dispersion or emulsion, aqueous-based or based on another suitable liquid vehicle.

7. (Previously Presented): A method of reinforcing a product based on fibers and a hydraulic-setting substance comprising adding a fiber as claimed in claim 1 to the product.

8. (Previously Presented): A product based on fibers and a hydraulic-setting substance, wherein the product comprises polyolefin fibers as claimed in claim 1.

9. (Previously Presented): The product as claimed in claim 8, wherein the product comprises from 0.2 to 5% by weight of reinforcing fibers relative to the total dry weight of an initial mixture based on hydraulic binder, water and fibers.

10. (Previously Presented): The product as claimed in claim 8, wherein the product is planar or is a corrugated board or plate.

11. (Previously Presented): A process for manufacturing a product based on fibers and a hydraulic-setting substance as claimed in claim 8, comprising preparing an initial mixture based on hydraulic binder, water and fibers, filtering the initial mixture on a fixed or moving support in order to form a wet elementary sheet, superposing a plurality of elementary sheets to form a wet intermediate product and drying the wet intermediate product.

12. (Previously Presented): A mortar composition comprising a hydraulic binder and fibers as claimed in claim 1.

13. (Previously Presented): The polyolefin fiber as claimed in claim 1, wherein the size comprises at least a product based on fatty-acid polyethylene glycol ester and phosphoric acid ester compounds, natural-oil-based.

14. (Previously Presented): The polyolefin fiber as claimed in claim 2, wherein the size comprises at least a product based on fatty-acid polyethylene glycol ester and phosphoric acid ester compounds, natural-oil-based.

15. (Previously Presented): The polyolefin fiber as claimed in claim 1, wherein the size comprises at least a product based on non-ionic surfactant and esterquats.

16. (Previously Presented): The polyolefin fiber as claimed in claim 2, wherein the size comprises at least a product based on non-ionic surfactant and esterquats.

17. (Previously Presented): The polyolefin fiber as claimed in claim 1, wherein the size comprises at least a product based on a fatty-acid-derived polyethylene glycol ester.

18. (Previously Presented): The polyolefin fiber as claimed in claim 2, wherein the size comprises at least a product based on a fatty-acid-derived polyethylene glycol ester.